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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/609,039	06/27/2003	Pei-Hung Chu	MXIC-P910021	8486	
7.	590 06/18/2004		EXAMINER		
Kenton R. Mullins Stout, Uxa, Buyan & Mullins, LLP			LE, DUN	LE, DUNG ANH	
Suite 300			ART UNIT	PAPER NUMBER	
4 Venture			2818		
Irvine, CA 92	2618		DATE MAILED: 06/18/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/609,039	CHU, PEI-HUNG				
		Examiner	Art Unit				
		DUNG A LE	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 1)∐	Responsive to communication(s) filed	on 4/22/04					
· ·	. , ,	☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
	4)⊠ Claim(s) <u>1-35</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-10, 21-35</u> is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>11-20</u> is/are rejected.						
7) 🔯	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction	on and/or election requirement.					
Applicat	ion Papers						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed onis/are: a) accepted or b)objected to by the Examiner.							
	Applicant may not request that any objection						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 							
Attachmen	ıt(s)						
1) Notice	of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTC mation Disclosure Statement(s) (PTO-1449).		w Summary (PTO-413) Paper No(s) . of Informal Patent Application (PTO-152)	Dle			

Response to Amendment

This Office Action is in response to Amendment filed on 4/22/2004.

Claims 1-7, 9-24 have been amended.

Claims 25-35 are newly added.

Claims 1-35 are pending in the present application at the time of examination.

Amendments to the drawing s are accepted.

Claim Rejections - 35 USC § 112

Claims 11-20 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicant introduces the new matter by adding:

"forming a material layer over the dielectric layer" into claim 1.

The added matter(s) is(are) not supported in the Specification and it (they)
(is) are not satisfactory resolved and consequently raise doubt as to possession o
the claimed invention at the time of filling.

Reason for allowance

Claims 1- 10 and 21- 35 are allowed. The following is an examiner's statement of reason for allowance:

Set of claims 1-11 and 21-24, none of the references of record teaches or suggests the claimed Method of avoiding enlargement of top critical dimension in contact holes using spacers having the step(s) of providing a substrate suitable for fabrication of integrated circuits and covered by at least a first dielectric layer, an etch stop layer and among other steps/limitations as claimed in independent claims 1 and 21.

Set of claims 25-29 and 30-35, none of the references of record teaches or suggests the claimed Method of avoiding enlargement of top critical dimension in contact holes using spacers having the step(s) of anisotropically etching the spacer layer in an etch chamber using an etching gas comprising oxygen, fluorocarbon gas and carbon oxide and wherein portions of the spacer layer remain in contact hole and among other steps/limitations as claimed in independent claims 25 and 30.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Friday 8:00am-5: 30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Dung A. Le

P. Examiner.